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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,699	05/16/2005	Philippe Catteau	047578/286155	8621
826 7590 04/28/2009 ALSTON & BIRD LLP			EXAMINER	
	ERICA PLAZA	MAI, THIEN T		
	RYON STREET, SUIT NC 28280-4000	E 4000	ART UNIT	PAPER NUMBER
			2887	
			MAIL DATE	DELIVERY MODE
			04/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/517,699	CATTEAU ET AL.
Office Action Summary	Examiner	Art Unit
	Thien T. Mai	2887
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 16 № 2a) This action is FINAL . 2b) This 3) Since this application is in condition for alloward closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1,18-21,24-30 and 36 is/are pending 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,18-21,24-30 and 36 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers	wn from consideration.	
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 16 May 2006 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Example 11.	☑ accepted or b)☐ objected to l drawing(s) be held in abeyance. Sec tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/16/09.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/16/2009 has been entered.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim(s) 1, 18, 21, 24-25 is/are rejected under 35 U.S.C. 102(b) as being anticipated by *Albert et al.* (US 6,118,426)

Re claims 1, 18, 21, 24, *Albert et al.* discloses an electrophoretic display label (col.2 lines 20-27) having "an antenna 302 that can be a monopole antenna, a dipole antenna, a planar array, a coil or any other antenna structure known in the art of radio reception" (col. 14 lines 10-17). The antenna surrounds the label as seen in Fig. 6B and is on the same substrate (as the claimed wall) where label 350 is disposed on. Fig. 1-2 and col. 7 lines 27-45 describe transducer 14 is printed on the same substrate 16 with display 12. The transducer is for transforming a form of energy (i.e. mechanical,

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electrochemical), such as piezoelectric material or solar cell or antenna, to electrical energy and provide the energy to the display. The display includes a capacitor to store energy. Col. 10 lines 27-40 describes the capacitance of the display is modified by the power input from the transducer. Col. 18 lines 25-35 describe the display has capacitance in the range of .1-100 picofarads per square meter when electrical energy is applied. Therefore the antenna acting as a transducer in connection with the display form a capacitor. The antenna 302 has at least 2 pairs of parallel legs interpreted as heads surrounding the display 350 as seen in Fig. 6. The display itself comprises conductive material in the coating layers and further comprises gold metal (col. 6 lines 27-58, col. 8 lines 39-55, col. 9 lines 40-50, col. 13 lines 12-47, col. 18 lines 35-55)

Re claim 25, electrical bridge is interpreted as the display.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim(s) 19-20 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over *Albert et al.* (US 6,118,426) in view of *Blanc et al.* (US 6,437,985). The teachings of *Albert et al.* have been discussed above.

Albert et al. is silent with respect to insulation layer comprising a decorative layer.

Re claim 19-20, *Blanc et al.* discloses an insulating layer (22), wherein the antenna is disposed between the wall and the insulating layer (Fig. 9). The insulating

layer comprises a decorative layer (col. 3 lines 49-58, col. 9 lines 63-64: film 22 can be deposited with decorative information)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of *Blanc et al.*

One of ordinary skill in the art would be motivated to employ the teachings of Blanc et al. since they would allow attractive and decorative information printed on the label thereby providing information to viewers about the label without a need to provide any power to the electronic display.

5. Claim(s) 26-30 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over *Albert et al.* (US 6,118,426) in view of *Martin* (US 6950023 B1). The teachings of *Albert et al.* have been discussed above.

Re claim 26-30, *Albert et al.* does not show a flat cable connected to the first and second antenna heads.

Martin discloses a flat cable comprises at least 2 segments connecting processing electronics 14 (inherently comprises a processor chip) to antenna heads (Fig. 1-3). Tabs 48, 46 at the ends of the coil each has an opening for placing solder on (col. 3 lines 50+). The wall defines an opening so that the flat cable is passed.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teachings of *Martin* by running a flat cable connected to the first and second antenna heads.

One of ordinary skill in the art would be motivated to employ the teachings of *Martin* since they would allow pre-made antenna coil heads to be connected to each other in order for the antenna to transmit, receive, and facilitate storing information.

6. Claim(s) 36 is/are rejected under 35 U.S.C. 103(a) as being unpatentable over *Albert et al.* (US 6,118,426) in view of *Suga et al.* (US 6,427,065). The teachings of *Albert et al.* have been discussed above.

Re claim 36, Albert et al. lacks the teaching of impedance matching.

Suga et al. discloses a matching circuit and/or chip (Fig. 4-5, 14) that uses the antenna coil and capacitor 25 to variably match the impedance of the desired power supply voltage to internal circuits (col. 2 lines 45+, col. 3 lines 20+, col. 9 lines 45+, col. 14 lines 29+)

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the impedance matching circuit and related teachings of *Suga et al.*

One of ordinary skill in the art would be motivated to employ the teachings of Suga et al. in order for the power voltage for the label's internal circuit to be controlled thereby minimizing possible failures.

Remarks

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection set forth above as the result of a careful review of prior art including *Albert et al.* and *Martin* previously presented. Previous argument dated 7/03/2008 with respect

to Albert et al. that "the display is separate and distinct from the energy storage device" is found to be non-persuasive. Applicant is respectfully requested to re-visit Albert et al. at col. 10 line 35 where Albert et al. teaches that the display comprises a circuit having capacitance as an electrical property and at col. 18 lines 5-35 where Albert et al. discusses the display's material yields a capacitance depending on the type of material, binder, and overall thickness as energy is applied to the display. The energy that powers the display can come from antenna 302 which receives power 380 from remote transmitter 370 as taught at col. 14 lines 10-17 and shown in Fig. 6A. Thus, the antenna heads when connecting to the display together makes a capacitor and therefore meets the claim limitation. Applicant's previous arguments with respect to Martin that Martin does not teach a display is not persuasive since Martin's teachings on flat cable and solder tabs only are used to correct Albert et al.'s deficiencies in failing to disclose internal details of the antenna's terminal connections.

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The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: see PTO-892 form.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thien T. Mai whose telephone number is 571-272-8283. The examiner can normally be reached on Monday through Friday, 8:00 - 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Steve S. Paik can be reached on 571-272-2404. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Thien T Mai/ Examiner, Art Unit 2887 /DANIEL WALSH/ Primary Examiner, Art Unit 2887